

CLAIMS

I claim:

1. An automatic pneumatic pump, comprising:

a casing, said casing having an outer surface, a top wall and a bottom wall, said casing, top wall and bottom wall enclosing a water-tight chamber;

a cylindrical tube disposed in said casing, said tube having an open upper end and an open lower end, wherein said open upper end extends above the top wall of said casing;

a compressed air line said air line having a portion disposed on said bottom wall;

an outlet nipple having a conical outlet opening connected to said air line, said nipple extending through said open lower end of said tube;

a fluid discharge line, said discharge line having an inlet opening into said water-tight chamber; and

a plunger, said plunger disposed in said tube and freely movable therein.

2. An automatic pneumatic pump as recited in claim 1, including a head gasket seat and a beveled head plate gasket disposed on said open upper end.

3. An automatic pneumatic pump as recited in claim 2, including a valve seat on said plunger, wherein said valve seat engages said head gasket seat and said beveled head plate gasket to close said open upper end.

4. An automatic pneumatic pump as recited in claim 1, including a pair of lifting handles attached to the outer surface of said casing.

5. An automatic pneumatic pump as recited in claim 1, including a plug in said plunger for engaging said nipple and sealing said outlet.

6. An automatic pneumatic pump as recited as recited in claim 1, including a filter positioned at said open upper end.

7. An automatic pneumatic pump as recited in claim 1, wherein said plunger comprises:

a cylindrical member having double walls, an open bottom and a closed top;

a fluid-tight annular chamber defined between said double walls;

a tubular passageway vertically disposed in said plunger, said passageway extending from said open bottom to said closed top; and

a plug for sealing said outlet nipple, said plug positioned in said passageway adjacent said closed top.

8. An automatic pneumatic pump as recited in claim 7, wherein said plug is fabricated from a pliable material.

9. An automatic pneumatic pump as recited in claim 7, wherein said plunger is fabricated from iron.

10. An automatic pneumatic pump as recited in claim 7, including a sealable opening positioned in one of said double walls, said opening communicating with said annular chamber.

11. An automatic pneumatic pump, comprising:

a casing, said casing having an outer surface, a top wall and a bottom wall, said casing, top wall and bottom wall enclosing a water-tight chamber;

a cylindrical tube disposed in said casing, said tube having an open upper end and an open lower end, wherein said open upper end extends above the top wall of said casing;

a head gasket seat disposed on said open upper end;

a compressed air line said air line having a portion disposed on said bottom wall;

an outlet nipple connected to said air line, said nipple extending through said open lower end of said tube;

a fluid discharge line, said discharge line having an inlet opening into said water-tight chamber;

a plunger, said plunger disposed in said tube and freely movable therein; and

a pair of lifting handles attached to said outer surface of said casing.

12. An automatic pneumatic pump as recited in claim 11, including a valve seat on said plunger, wherein said valve seat engages said head gasket seat to close said open upper end.

13. An automatic pneumatic pump as recited as recited in claim 11, including a filter positioned at said open upper end adjacent said head gasket seat.

14. An automatic pneumatic pump as recited in claim 11, wherein said plunger comprises:

a cylindrical member having double walls, an open bottom and a closed top;

a fluid-tight annular chamber defined between said double walls;

a tubular passageway vertically disposed in said plunger, said passageway extending from said open bottom to said closed top; and

a plug for sealing said outlet nipple, said stopper positioned in said passageway adjacent said closed top.

15. An automatic pneumatic pump as recited in claim 14, wherein said plug is fabricated from a pliable material.

16. An automatic pump as recited in claim 15, including a sealable opening positioned in one of said double walls, said opening communicating with said annular chamber.

17. An automatic pump as recited in claim 16, wherein said plunger is fabricated from iron.